

PATENT
2185-0480P

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant: NIPPA, S. Conf.: 1737
Appl. No.: 09/708,519 Group: 1714
Filed: November 9, 2000 Examiner: C. E. SHOSHO
For: RESIN COMPOSITE AND METHOD FOR
PRODUCING THE SAME

37 CFR § 1.132 DECLARATION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Sir:

I, Yusuke KAWAMURA, a Japanese citizen residing at 2-2-225, Ikku-cho, Niihama-shi,
Ehime, Japan, declare as follows:

That I received a Master Degree from the Graduate School of Osaka University,
Department of Engineering Science in March 2004, and entered Sumitomo Chemical Company
Limited in April, 2004, in which company I have since then been engaged in research in the
technology field of inorganic materials;

That I am familiar with the prosecution history of the above-identified application;

That the following Experiment 2 was conducted by me, or that it was conducted under
my direction and control.

*37 CFR § 1.132 Declaration**Attorney Docket No. 2185-0486P**Appl. No. 09/708,519**Experiment 2*

20 parts of aluminum hydroxide powder having a crystalline structure of boehmite and an average primary-particle diameter of 13 nm, which was obtained by hydrolysis of aluminum alkoxide, was mixed with 80 parts of styrene-butadiene rubber (trade name: HS-1, manufactured by Sumitomo Chemical Co., Ltd.) and 18 parts of PTFE emulsion, which was obtained in advance by mixing 9 parts of PTFE emulsion (trade name: POLYFLON D-1E, PTFE content: 64%, manufactured by Daikin Industries, Ltd.) and 9 parts of water, in a vessel for 5 minutes at 105 °C to obtain a mixture.

The mixture was mixed for 5 minutes at 50 °C with 1.3 parts of zinc oxide, 1.3 parts of stearic acid, 0.95 parts of an age resistor (trade name: ANTIGENE 3C, manufactured by Sumitomo Chemical Co., Ltd.), 0.95 parts of wax (trade name: SUNNOC-N, manufactured by Ouchi-Shinko Chemical Industrial Co., Ltd.), 0.64 parts of a vulcanization accelerator (trade name: SOXINOL CZ, manufactured by Sumitomo Chemical Co., Ltd.), 0.64 parts of a vulcanization accelerator (trade name: SOXINOL D, manufactured by Sumitomo Chemical Co., Ltd.), and 0.89 parts of sulfur.

The resultant was subjected to vulcanization molding for 20 minutes by using a 170 °C hot press to obtain a resin composite.

Using the thus obtained resin composite, an index Y/X of the same resin composite was measured in accordance with the procedure set forth in the present specification at page 15, lines 17-25.

The resin composite of the above Experiment 2 possessed an index Y/X of 0.138. It is thus recognized that the resin composite prepared in the above Experiment 2 does not

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have an index Y/X of 0.1 or less. Moreover, the tensile strength of the resin composite was found to be 4.1MPa.

The undersigned declarant declares further that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signed this 1st day of June 2007.

Yusuke Kawamura

Yusuke Kawamura